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FIRST PUC ANNUAL EXAMINATION 2023

ಪ್ರಥಮ ಪಿಯುಸಿ ವಾರ್ಷಿಕ ಪರೀಕ್ಷೆ 2023

ವಿಷಯ ಸಂಕೇತ: 36

ವಿಷಯ: ಜೀವಶಾಸ್ತ್ರ

ಹಮಯ: 3.15 ಗಂಟೆಗಳು

Subject-BIOLOGY

ಗರಿಷ್ಠ ಅಂಕಗಳು: 70

General instructions:

- 1. The question paper consists of four parts A, B, C and D.
- 2. Part-A consists of I & II and Part-D consists of V & VI.
- 3. All the parts are compulsory.

temperature is termed -

20. Prolonged hyperglysemia leads to a complex disorder called

4. Draw diagrams wherever necessary, unlabelled diagrams or illustrations do not attract any marks.

		•			The second secon	
0.		21.10.71		PART - A		
V 1.		Select the correct al	ternative from the cl	holces given:	15:	x1=15
	٦.	The sum total of all t	he chemical reaction	ns occurring in our body is		
		a) metabolism	b) Reproduction	c) Consciousness	d) Growth	
	-2.	Artificial system of c		en by	7	
		a) Linnaeus	b) Aristotle	c) Bentham and hooke	r d) Engler and prontle	
	٦.	one animals which h	ave body cavity and	d lined by mesoderm Such	animals are known as .	
		a) Pseudocoelomate	s b) Acoelomates	c) Coelomates	d) Coelenterates	
	4.	Casparian strips are		ermis of		
	.5	a) Root	b) Stem	-c) Both stem and root	d) Leaf	
		The function of the G				
		a) To stop substance			b) Perform cementing substant	nce
		c) facilitate the cells			d) promote cell division	
		Omnis cellula-e cellul				
F		a) Schleiden	b) Schwann	-c) Rudolf Virchow	d) Linnaeus	
Test 1		Elaioplasts store				
		a) Oils and fats	b) Proteins	c) Enzymes	d) Starch	
ì				accharides are linked by		
		a) Peptide bond	b) Hydrogen bond	 c) Glycosidic bond 	d) Phosphoester bond	i
		The DNA synthesis or	replication takes pl	lace during		
		a) M phase	b) G₀ phase	c) S phase	 d) G₂ phase 	•
	10.	The mutual attraction	between water mol	lecules is called		
		a) cohesion	b) Adhesion	c) surface tension	d) Capillarity	
٠.	11.	If the external solution	n balances the osmo	otic pressure of the cytopl	asm it is said to be	
		a) Hypertonic	b) hypotonic	-c) Isotonic	d) paratonic	
	12.	Water and minerals a	re absorbed by	E 1		
	120	a) Entire root	b) Root cap	c) Root hairs	d) Elongation region	
	13.	Living element of the	xylem is			
		a) Tracheids	b) vessels	c) Xylem fibres	d) Xylem parenchyma	a *
	14 \	/olume of air in the lu	ıngs even after a foi	rcible expiration		
		a) Residual volume	b) vital capacity	c) Total lung capacity	d) Tidal volume	
		Find out the odd one				
		a) Cortisol	b) Testosterone	c) Insulin	d) Estradiol	
11.		Fill in the blanks by c	hoosing the approp	riate word/words from tho	se given in the bracket	5x1=5
		(Diabetes mellitus, C	losed type, Excretic	on, Cell division, Vernalisa	tion)	CEIXO
				and urecose glands help in	•	
		Blood vascular syster				
		Auvin controls Yulem				

19. The plants for which flowering is either quantitatively or qualitatively depend on exposure to low

	111.	Answer any FIVE of the following questions in 3-5 sentences each, wherever applicable:	5x2 =10				
	2	1. Name any four taxonomical aids. 2					
	2	22. Write any two classes of pteridophytes.					
	2	23. What is natural system of classification? Who proposed this?					
		24. What is Phyllotaxy? Name any two types of Phyllotaxy.					
		25. Mention the types of bacteria based on their shape. \					
		6. Write the schematic representation of cyclic photophosphorylation.					
		27. Define a) Micturition b) Glomerulonephritis					
		28. Write the role of lungs and skin in the role of excretion.					
		PART - C	HIE BUREAU				
1	5 IV.	Part of the second of the seco	5x3=15				
		29. Mention any three groups of protozoans with an example each.					
		30. Write the characters of family fabaceae.					
		31. Differentiate between heartwood and sapwood.	*				
		32. Give an example for acidic, basic and neutral amino acids.					
		33. Write the significance of mitosis. 3					
		34. Describe the steps involved in ATP synthesis through chemiosmosis.					
		35. Explain the steps involved in expiration. 3					
		36. Name the hormones of Heart, kidney and GastroIntestinal tract.					
		PART- D					
5	V.	Answer any THREE of the following questions in 200-250 words each, wherever applicable:	3x5=15				
		37. Assign the following animals to their respective phyla.					
	- 31	i) Taenia ii) Ascaris iii) Leech iv) Devil fish v) starfish.	ALCO VINCE				
		38. Draw a neat labelled diagram of alimentary canal of cockroach.					
		39. Describe the structure of Mitichondria with a neat labelled diagram.					
		40. Explain how opening and closing of stomata occurs during transpiration.					
		41. Explain the physiological role of the following elements.					
		a) sulphur b) Iron c) Potassium d) Zinc e) Copper.					
		42. Write the schematic representation of Citric acid cycle.					
		기업과 가마이캠에는 가마하다 그 사이를 하다면 하는 가족을 느꼈다. 나는 그릇 모습니다					
9	VI.	Answer any TWO of the following questions in 200-250 words each, wherever applicable:	2x5=10				
		43. Write a note on discovery, physiological functions and agricultural/horticultural applications	of				
7		ethylene.					
		44. Draw a neat labeled diagram of digestive system of man. 5					
		45. Explain the Circulatory pathway in human beings					
	Charles All	46. a) Name the type of movement found in Amoeba, Paramecium and limbs of mammals	(3)				
		b) Name the two contractile proteins. 2	(2)				
		47. Draw a neat labeled diagram of sagital section of Human brain.	(2)				
		(41일 : 1일 14일) :					